

ANTENNA INFORMATION

OEM	Lenovo
ODM	LCFC
Platform model name	TP00164A
Intel platform (ex: Yes, No or NA)	T14s 2-in-1 Gen 1
Platform type (ex: regular NB, convertible PC, AIO...etc)	yes
SAR minimum separation (mm)	Convertible PC
FCC (1g)	9.9mm
ISED (1g)	1.55mm

Antenna manufacturer	Company name	AWAN
	Address	5F, No. 225, Sec. 3, Bei-Hsin Rd., Xindian Dist., New Taipei City, 231, Taiwan (R.O.C.)
Test location	Company name	Luxshare-ICT
	Address	No. 568, Sec. 1, Minsheng N. Rd., Guishan Dist., Taoyuan City 333016 , Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Joseph Chiu
	E-mail	Joseph.Chiu@luxshare-ict.com
	Tel/Mobile	+886-2-26570707 ext 56816
Testing date		2024/12/11

Antenna Part number	Main	DC330028H00
	Aux	DC330028H00
Antenna type (ex: PIFA, Dipole...etc)		PIFA

Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	2.40	2.96	1.96	1.32	2.35	2.29	2.17	1.73	2.46	2.99
Aux	2.42	2.94	2.94	2.69	2.89	2.76	3.82	3.82	4.45	3.95

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	0.81 low loss	286	0.81	50	C87P112 or equivalent
Aux	0.81 low loss	290	0.81	50	C87P112 or equivalent

* 3D Antenna Peak Gain required being test in system basis.

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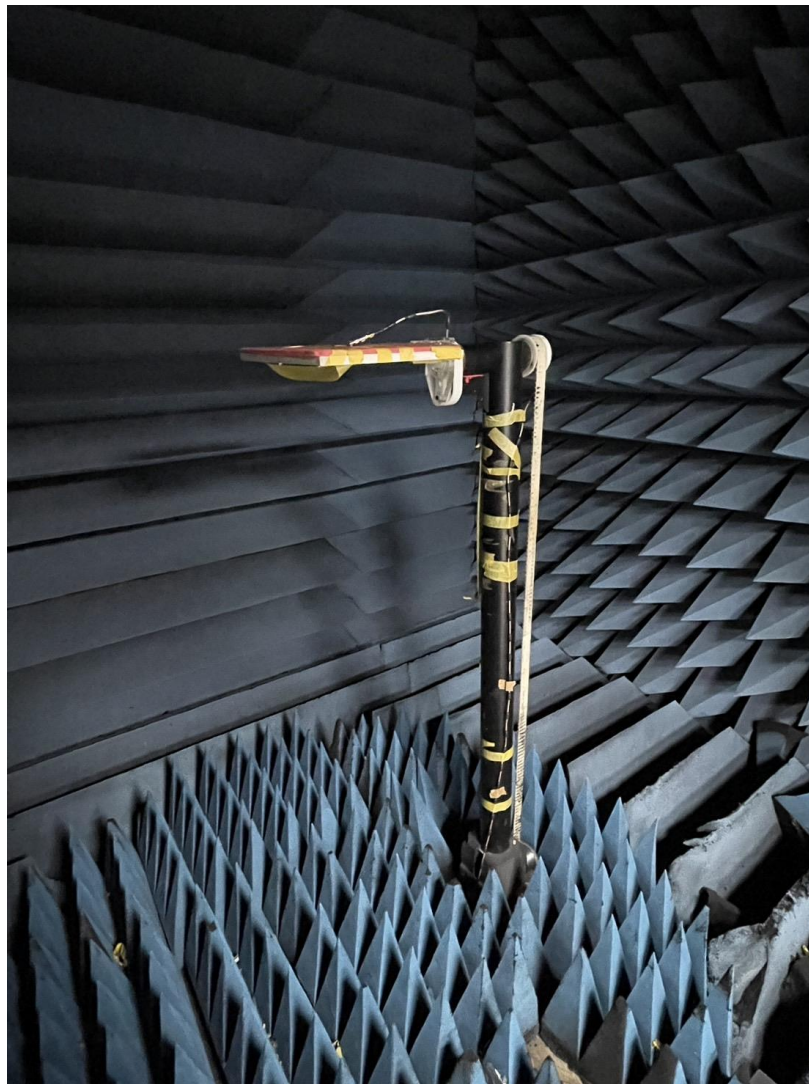
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Annex A. Photographs

A.1 Setup Photo

<insert test diagram here for test site utilized>

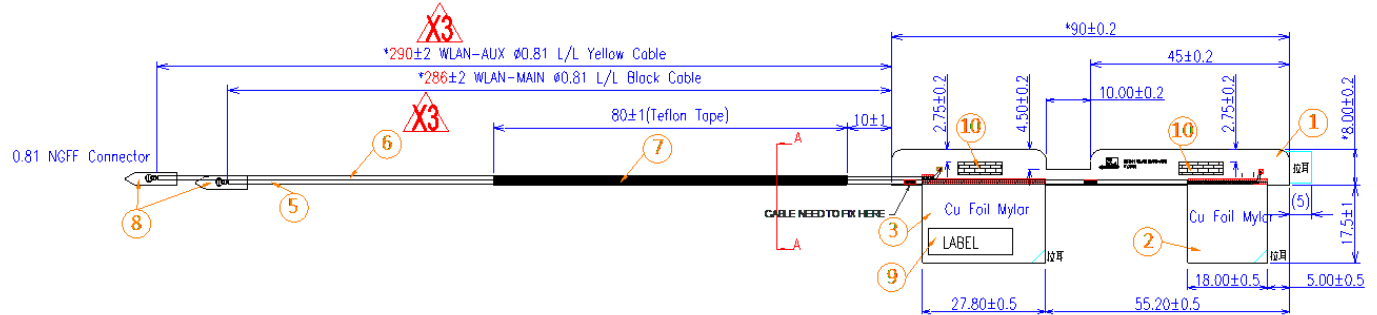
Test Conditions
NB under test placed on a non-conductive structure at sufficient height to be in the 'quiet zone' of the chamber
The NB under test must be fully populated with a power, motherboard, hard drive, disk drives, etc... The purpose is to characterize the antennas on a fully populated customer deliverable unit.
NB's panel should be parallel with XY-plane and face to Y-axis, see diagram below.



A.2 Test sample

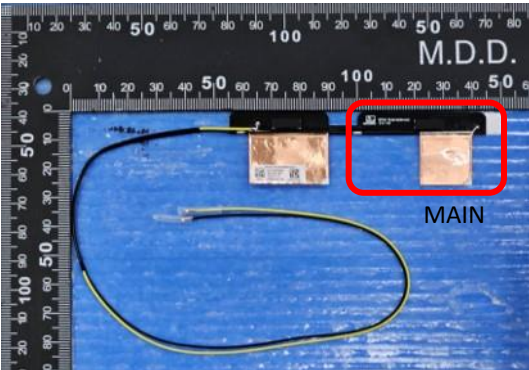
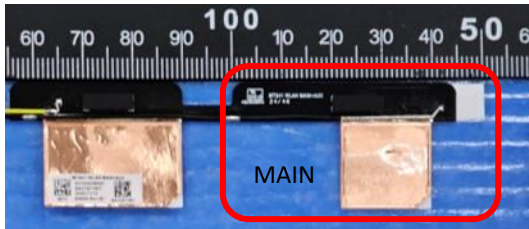
Main Antenna

Antenna Drawing

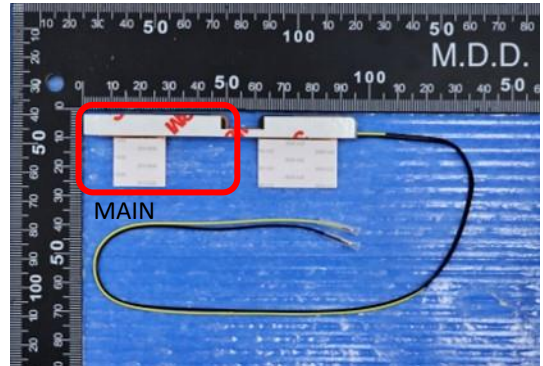


Antenna Photo

Front



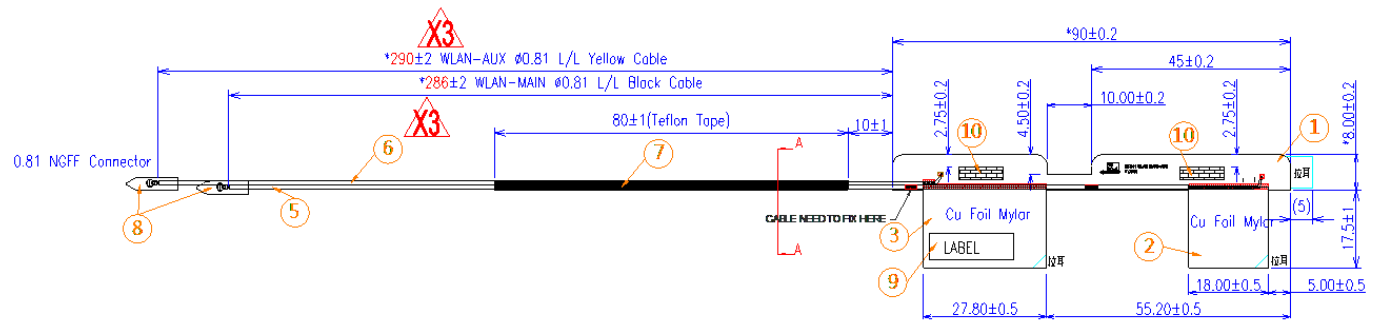
Back



Note: antenna photo should include L type ruler

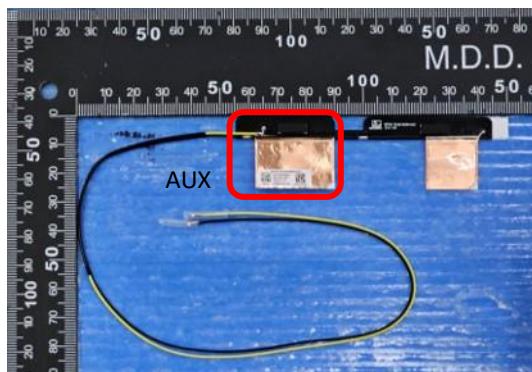
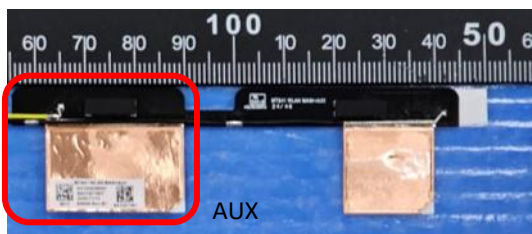
Aux Antenna

Antenna Drawing

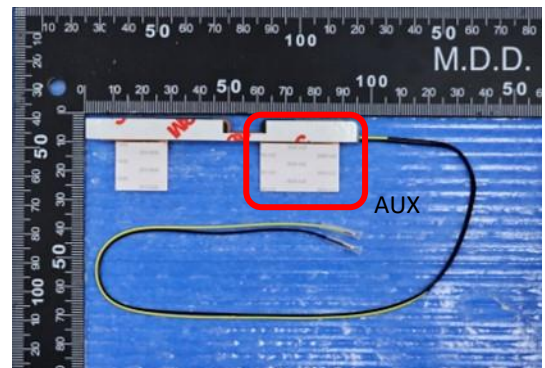
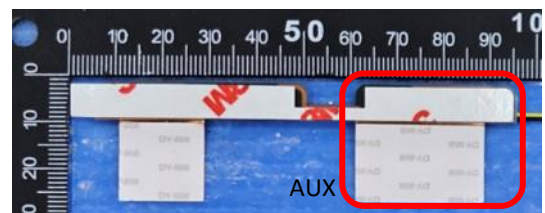


Antenna Photo

Front



Back



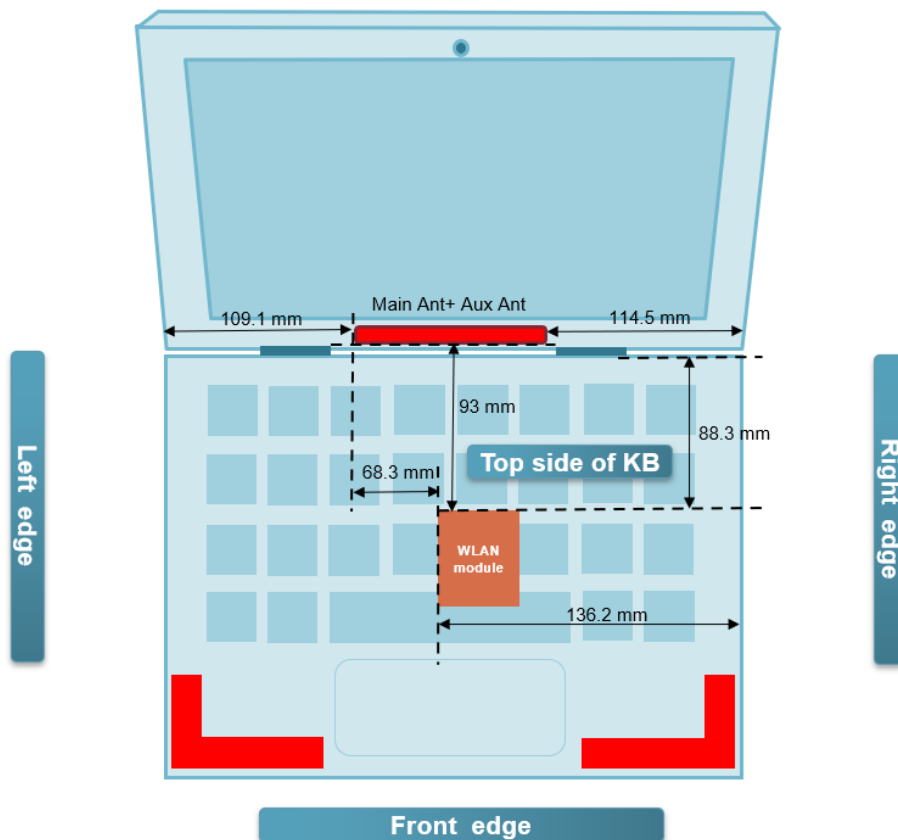
Note: antenna photo should include L type ruler

Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

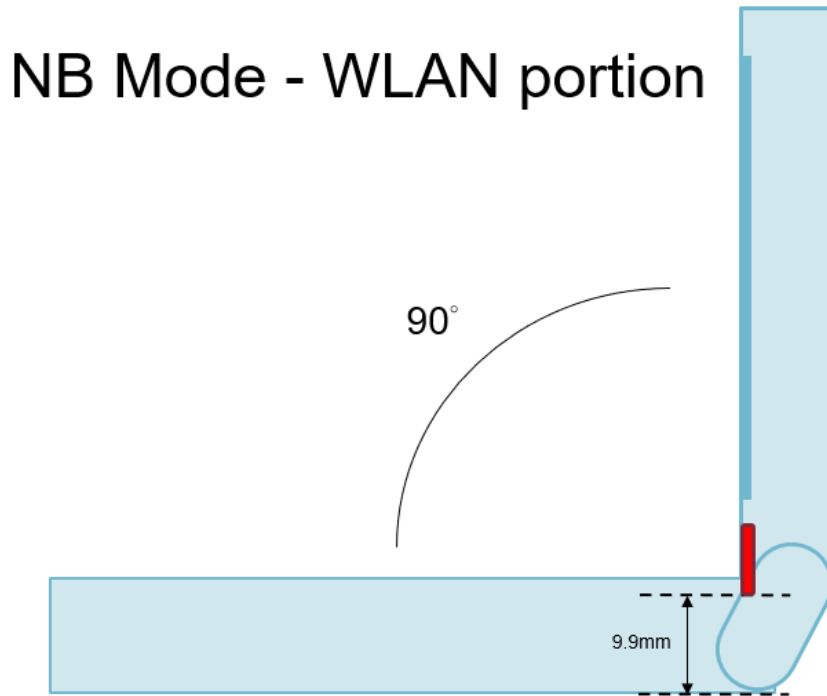
Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.



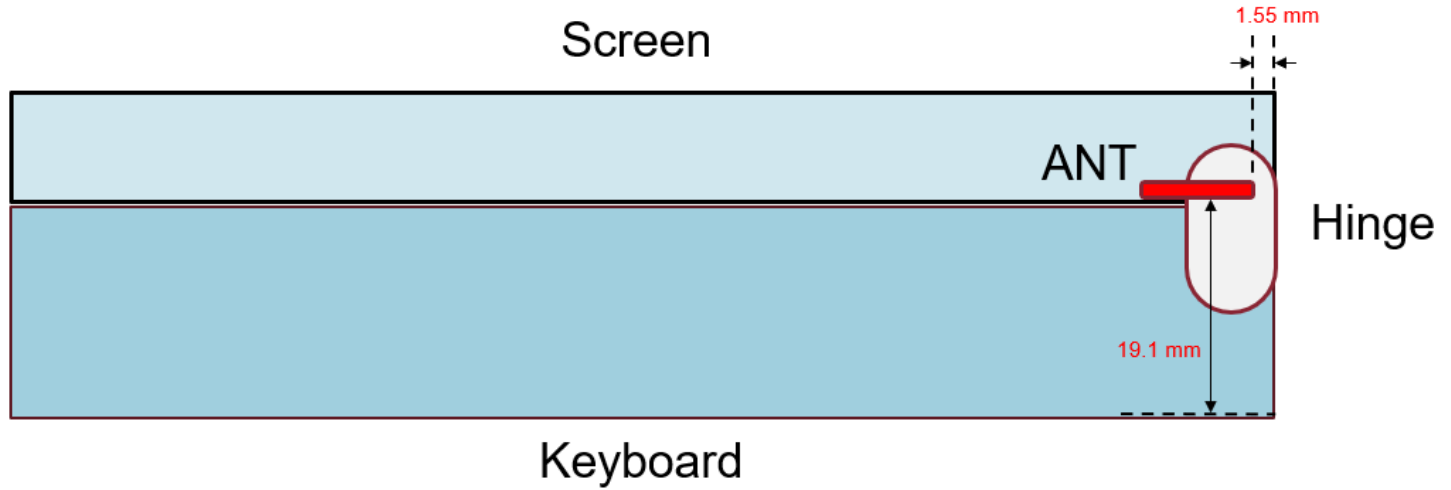
B.2 Antenna dimensional information for SAR evaluation

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.



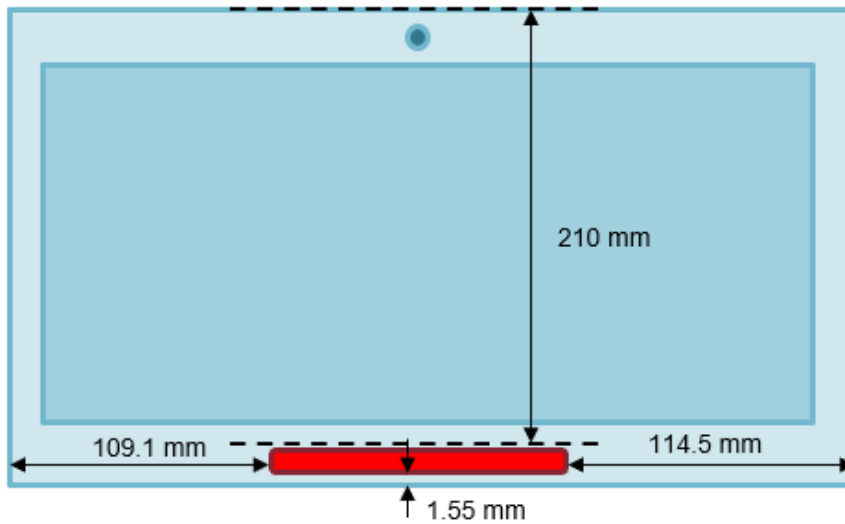
Measuring Surface	Antenna	Separation Distance(antenna-to- Surface)(mm)	1g SAR
Bottom side	Main	9.9	FCC/ISED
	Aux	9.9	FCC/ISED

Tablet Mode - WLAN portion



Measuring Surface	Antenna	Separation Distance(antenna-to- Surface)(mm)	1g SAR
Bottom edge	Main	1.55	FCC/ISED
	Aux	1.55	FCC/ISED
Bottom side	Main	19.10	FCC/ISED
	Aux	19.10	FCC/ISED

Tablet Mode - WLAN portion



Measuring Surface	Antenna	Separation Distance(antenna-to-Surface)(mm)	1g or 10g SAR
Front Edge	Main	1.55	1g
	Aux	1.55	1g
Left Edge	Main	109.10	1g
	Aux	109.10	1g
Right Edge	Main	114.50	1g
	Aux	114.50	1g
Top side of Keyboard	Main	19.10	1g
	Aux	19.10	1g
Bottom edge	Main	210	1g
	Aux	210	1g